

METEOROLOGICAL SUMMARY FOR SOUTHERN SOUTH AMERICA, NOVEMBER, 1926

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November had a more active atmospheric circulation, which culminated in the development of great storms over the southern zone of Chile during the closing days of the month.

Between the 1st and 4th a somewhat important depression crossed the far southern part of the continent, causing rains in the south and as far north as the coast of Arauco. Daily precipitation did not exceed 10 mm.

On the 5th the pressure rose, causing an important anticyclonic center over the south, with fall of temperature and general fine weather until the 8th.

On the 9th and 10th a strong depression crossed the far southern region, causing rains as far north as Valdivia and heavy snows in the region of Magallanes.

From the 11th to the 19th atmospheric quiet reigned over the south, the center of high pressure frequently

extending from Chiloe to the island of Huasco. However, during the 16th and 17th electrical storms developed in the interior of Biobio, Malleco, and Arauco Provinces and on Isla Mocha. These storms moved clear across the country.

On the 20th began a period of bad weather in southern Chile. Between the 20th and 23d a depression crossing the far south caused rains as far as Valdivia. Between the 24th and 30th great cyclones followed one another across the far south, causing heavy rain and wind storms which lashed the entire region as far up as Concepcion Province. On the 28th in the early morning the wind velocity reached more than 1,000 m. per minute (37.1 m. p. h.) at Valdivia. Precipitation varied on the average between 10 and 30 mm. * * *—Transl. B. M. V.

BIBLIOGRAPHY

C. FITZHUGH TALMAN, in Charge of Library

RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Arnold, Henry H.

Airmen and aircraft; an introduction to aeronautics. New York. [c1926.] x, 216 p. front. (6 port.) illus. plates. diagrs. 22 cm.

Barnes, Howard T.

Engineering features in breaking the Allegheny ice gorge. Conditions prior to the commencement of the work, methods of attack and the results obtained. Montreal. 1926. unp. illus. 30 $\frac{1}{2}$ cm. (Repr.: Engin. journ., Nov., 1926.)

Cline, Isaac Monroe.

Tropical cyclones, comprising an exhaustive study ... of ... features observed and recorded in sixteen tropical cyclones which have moved in on Gulf and south Atlantic coasts during the twenty-five years, 1900 to 1924, inclusive ... New York. 1926. xii, 13-301 p. incl. tables, diagrs. maps. 22 $\frac{1}{2}$ cm.

Cold weather, your car and its operation. p. 121-132. illus. 26 cm. (Lubrication. v. 12, no. 11, Nov., 1926.)

Covert, Roy N.

Protection of buildings and farm property from lightning. [Washington. 1926.] ii, 33 p. illus. 23 $\frac{1}{2}$ cm. (U. S. Dept. agric. Farmers' bull., no. 1512.)

Dominguez, Ernesto.

Apuntes sobre prevision del tiempo a corto plazo en la Republica Mexicana. Tacubaya. 1924. 18 p. illus. 27 cm.

Dorno, C.

Ausstattung moderner Strahlungsobservatorien. [Davos. 1926.] 13 p. fig. plates. 26 cm. (Sonderab.: Met. Zeit., Heft 9, 1926.)

Great Britain. Meteorological office.

Instructions for meteorological telegraphy. London. 1926. 54 p. plates. 24 cm. (Met'l observer's handbook (M. O. 191). Suppl. no. 1.)

Notes on the meteorological observations made in British colonies and protectorates in 1923, and summarized in the annual reports of Colonial governments. [London. 1926.] 14 p. 33 $\frac{1}{2}$ cm. (M. O. 287.)

Hellmann, G.

Die Entwicklung der meteorologischen Beobachtungen in Deutschland von den ersten Anfängen bis zur Einrichtung staatlicher Beobachtungsnetze. Berlin. 1926. 25 p. 28 cm. (Abhandl. preuss. Akad. Wissensch., Jahrg. 1926. Phys.-math. Kl. Nr. 1.)

Hess, Victor F.

Die elektrische Leitfähigkeit der Atmosphäre und ihre Ursachen. Braunschweig. 1926. viii, 174 p. illus. 22 $\frac{1}{2}$ cm. (Sammlung Vieweg. Tagesfragen aus den Gebieten der Naturwissenschaften und der Technik. Heft 84/85 (Doppelheft.))

Hoffman, Frederick Ludwig.

Windstorm and tornado insurance. 4th ed., rev. and enl. Chicago. 1926. 109 p. illus. (incl. maps.) 22 cm.

Horiguti, Yosiki.

On the typhoon of the Far East. pt. 1. The distribution of the meteorological elements in the Okinawa typhoon. p. 111-162. figs. 26 cm. (Mem. Imp. mar. obs., Kobe, Japan, v. 2, no. 3, Oct., 1926.)

Humphreys, William Jackson.

Fogs and clouds ... Baltimore. 1926. xvii, 104 p. front. plates. ports. 20 $\frac{1}{2}$ cm.

Joint committee on civil aviation of the U. S. Department of commerce and the American engineering council.

Civil aviation; a report. 1st ed. New York. 1926. xvii, 189 p. illus. (maps.) tables. diagrs. 23 $\frac{1}{2}$ cm.

Kamerling, Z.

Grondslagen voor een weervoorspelling op langen termijn. Leiden. n. d. pt. 1. Enkelvoudige perioden van wijziging der weersgesteldheid. 23 p. figs. tables. 26 $\frac{1}{2}$ cm.

Larisch-Moennich, Franz, von.

Sturmsee und Brandung. 5,185 p. illus. plates (part col.) fold. maps (in pocket.) diagrs. 25 $\frac{1}{2}$ cm.

Leeds tercentenary celebrations.

Report of the tercentenary "clean air" committee. July, 1926. Leeds. n. d. 52 p. illus. 18 cm.

Mexico. Servicio meteorologico.

Promedios de precipitacion anuales. (Promedios de 1921 a 1925 inclusive.) 1 sheet. 34 $\frac{1}{2}$ x 43 $\frac{1}{2}$ cm.

Paine, George Porter.

Aerodynamics of the psychrometer. Newark. [c1926.] p. 33-126. figs. plates. 26 $\frac{1}{2}$ cm. (Delaware notes.) [Reprints of five scientific papers, pub. in Annals of the astron. observ., Harvard college, v. 87, pt. 1, 1924.]

Pan-Pacific science congress. 2d, Melbourne and Sydney, 1923.

Proceedings of the Pan-Pacific science congress, Australia, 1923. Melbourne meeting: 13th-22nd August, 1923. Sydney meeting: 23rd August to 3rd September, 1923 ... Melbourne. [1924.] 2 v. illus. fold. plates, maps (part fold.) fold tables. 24 $\frac{1}{2}$ cm.

Rotmistrov, Vl. G.

Das Wesen der Dürre; ihre Ursache und Verhütung. Dresden. 1926. 68 p. illus. fold. tab. diagr. 23 $\frac{1}{2}$ cm.

Schmidt, Wilhelm.

Auswertung der Wiener Sonnenstrahlungsmessungen für praktische Zwecke. 9 p. figs. 22 cm. (Sonderab.: Fortschritte der Landwirtschaft. Heft. 19, Jahrg. 1926.)

Zur Berechnung der räumlichen Verteilung von Rauch und Abgasen in der freien Luft. [Wien.] p. 425-426. fig. 30 $\frac{1}{2}$ cm. (Gesundheits-Ingenieur. 49. Jahrg. 28. Heft. 10. Juli 1926.)

Schmieder, Oscar.

East Bolivian Andes south of the Rio Grande or Guapay. Berkeley. 1926. p. 85-210. illus. plates. 27 $\frac{1}{2}$ cm. (Univ. Cal. Pub. in geog., v. 2, no. 5, Nov. 10, 1926.) [Contains notes on climate.]